

EXECUTIVE OFFICER SUMMARY REPORT  
March 9, 2005

ITEM: 4

SUBJECT: NPDES PERMIT RENEWAL: TENTATIVE ORDER NO. R9-2005-0015; NPDES PERMIT NO. CA0108391; WASTE DISCHARGE REQUIREMENTS FOR MOUNTAIN WATER ICE COMPANY; SAN DIEGO COUNTY. (Tony Felix)

PURPOSE: To adopt a tentative Order that updates and renews the National Pollutant Discharge Elimination System (NPDES) Permit, Waste Discharge Requirements for Mountain Water Ice Company for the existing defrost water, evaporative condenser overflow and melted ice discharge to the San Luis Rey River via a concrete-lined channel.

PUBLIC NOTICE: The NPDES permit hearing notice was published in the North County Times on February 4, 2005 for the Regional Board meeting scheduled for March 9, 2005. Copies of the tentative Order were mailed on February 4, 2005 to the discharger and to all known interested parties and agencies. The tentative Order was also posted on the Regional Board's website on February 4, 2005. Copies were made available for public review at the Regional Board office on February 4, 2005.

These actions served as the 30-day official public notification for this action, as required by Title 40, Section 124.10 of the Code of Federal Regulations.

DISCUSSION: Mountain Water Ice Company (hereinafter Discharger), located at 2843 Benet Road, Oceanside, California, manufactures crushed ice and pressed ice blocks for wholesale distribution and retail sale.

The Discharger manufactures approximately 390 tons of ice per day during the summer and approximately 175 tons of ice per day during the winter. Source water for the ice manufacturing process is comprised of municipal water from the City of Oceanside. The discharge is made up of defrost water, overflow from the evaporative condensers and melted ice. An average of 44,371 gallons per day (gpd) of wastewater from the reclaimed sump is discharged to the San Luis River via a concrete-lined channel and is currently regulated by existing Order No. 2000-34, NPDES Permit No. CA0108391. Order No. 2000-34 expires on March 8, 2005.

Tentative Order No. R9-2005-0015 (*Waste Discharge Requirements, NPDES Permit No. CA0108391, Mountain Water Ice Company, San Diego County*) renews Order No. 2000-34 in its entirety, and expires five years following its adoption by the Regional Board.

The Discharger submitted a NPDES permit renewal application, dated September 9, 2004, for Order 2005-0015 and proposes to discharge up to 85,000 gpd of defrost water, overflow from the evaporative condensers and melted ice. The permit renewal application to the Regional Board states the daily flow for the period between February 2000 and December 2003 varied from 0 gpd to 88,000 gpd, with daily average flow of approximately 44,000 gpd. No chemicals or additives are added to the process water during the ice manufacturing process and the wastewater is not treated prior to discharge.

The discharge of defrost water, overflow from evaporative condensers, and melted ice is not expected to adversely impact the designated beneficial uses nor exceed the water quality objectives of the San Luis Rey River within the Mission Hydrologic Subarea (HAS) (903.11).

As of February 23, 2005, the Regional Board has not received any written comment regarding the tentative Order.

KEY ISSUES:

The 2002 State Board's California 303(d) List classifies the San Luis Rey River as impaired for TDS and chloride. Mountain Water Ice discharges TDS and chloride in its discharge. Tentative Order R9-2005-0015 establishes effluent limitations for TDS and chloride that are protective of the receiving water.

LEGAL CONCERNS:

None.

SUPPORTING  
DOCUMENTS:

1. Location map.
2. Tentative Order No. R9-2005-0015
  - (i) Attachment A - Definitions
  - (ii) Attachment B - Topographic Map
  - (iii) Attachment C - Wastewater Flow Schematic
  - (iv) Attachment D - Federal Standard Provisions
  - (v) Attachment E - Monitoring and Reporting Program
  - (vi) Attachment F - Fact Sheet
  - (vii) Attachment G - Reasonable Potential Analysis Summary

(viii) Attachment H – California Toxic Rule Monitoring Requirements

3. Copy of tentative Order transmittal letter, dated February 4, 2005.
4. Affidavit of Publication

COMPLIANCE  
RECORD:

The review of available effluent monitoring data indicated the Discharger violated Order No. 2000-34 two times in the last four years. The discharge violated the effluent limitations for Total Dissolved Solids (TDS) on two occasions. TDS samples collected on December 28, 2001 and June 6, 2003 were 597 mg/L and 570 mg/L, respectively. These results exceeded the effluent limitation of 550 mg/L established in Order No. 2000-34. No other effluent violations of Order No. 2000-34 were noted during the previous four years.

SIGNIFICANT  
CHANGES:

1. The Discharger shall measure the temperature of the influent and receiving water within 15 minutes of each other.
2. Effluent monitoring data indicates that the Discharger may be unable to consistently comply with effluent limitations established in the Order for copper, bromoform and total residual chlorine. Interim limitations have been prescribed for these constituents.
3. The Order contains a compliance schedule that allows the Discharger up to 3 years to comply with the final effluent limitations for copper and bromoform. Within one year after the effective date of the Order, the Discharger must prepare and submit a compliance plan that describes a workplan to ensure compliance with the final effluent limitations for copper and bromoform.
4. The Order contains a compliance schedule that allows the Discharger 12 months to comply with the final effluent limitations for total residual chlorine. Within six months after the effective date of the Order, the Discharger must prepare and submit a compliance plan that describes a workplan to ensure compliance with the final effluent limitations for total residual chlorine.
5. The Discharger shall conduct receiving water monitoring for the priority pollutants at the same time effluent monitoring is conducted. Additionally, the Discharger must analyze pH and

hardness of the receiving water concurrent with the analysis for the priority pollutants.

RECOMMENDATION: Adoption of tentative Order No. R9-2005-0015, NPDES Permit No. CA0108394 is recommended.